

**WEB-BASED OPTIMIZATION AND EFFICIENT OF THE
DYNAMIC QUESTIONS BANK IN UUM**

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**UNIVERSITI UTARA MALAYSIA
2010**

WEB-BASED OPTIMIZATION AND EFFICIENT OF THE DYNAMIC QUESTIONS BANK IN UUM

A project submitted to Dean of Postgraduate Studies and Research in partial
Fulfillment of the requirement for the degree
Master of Science of Information Technology
Universiti Utara Malaysia

By

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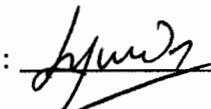
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Abstract

These days with the rapid growth of technology, education institutions are looking for the fastest and latest ways to develop and exploit technology in education. Therefore, in this research I focused on developing a prototype system that serves the lecturers to have their own repository of questions that can facilitate the operation of examination. Hence, I have created a web-based that will be private only for lecturers. The system contains compilation of previous examination questions that has been done by lecturers. The questions were stored in categories according to their difficulties; easy, medium and hard with multiple-choice and essay type of questions. The sample of data was collected through Universiti Utara Malaysia (UUM)'s lecturers. The methodology was used "The General Methodology of Design Research (Vaishnavi & Kuechler, 2004)" because it is suitable to apply on this research. Based on the evaluation processed, the researcher found lecturers who used a web-based optimization and efficient of the dynamic questions bank system were so pleased and satisfied with how the system works. The effectiveness of using this depository system in UUM is so useful because it is easy to select the type of questions lecturers preferred. The researcher considers that, this depository system in UUM as one of the education processes is very important to help both students and lecturers to get all the benefits from education.

Dedication

I humbly thank Allah Almighty, the Merciful and the Beneficent, who gave me health, thoughts and co-operative people to enable me achieve this goal...

I wish to dedicate this work to Holy Prophet Muhammad (Peace upon him) and his companions who laid the foundations of Modern civilization and paved the way for social, moral, political, economical, cultural and physical revolution...

To my supervisor (Yussalita Md. Yussop), who always stood beside me and helped me to do my best, for the time she spent to teach me, I will still be her student all my life...

As well, I would like to thank my evaluator (Mr. Azmi Md Saman) for his help in evaluating my work,

I would like to dedicate this work to my uncle (Professor Abdel-Latif Al-Mayah "May Allah have mercy on him")

I would also like to dedicate this work to my guidance in the life (my uncle Dr. Khalid Al-Mayah)

I thank my parents (Abdulhussein, Salwa), brother (Mohammed), my sisters (Noor, Maraw, Ssafa), My uncle (Dr. Ahmad Al-Mayah) and my best friends (Mustafa Jawad, Ammar Saad, Awrid Ibrahim, Firas Saadi, Omar Jawad, Omar Ali, Ali Abdul-Mahdi, Osama ,Hamdi Abdel-Razzak, Ali Siham)

I would also like to dedicate this work to my friend Omar Ayad ("May Allah have mercy on him")

Finally I would like to dedicate this work to my friends in Malaysia (Ali Sadik, Mohammed Shihab, Ibrahem Talat, Ibraheem Ali, Harith Azam "from Iraq". Muhammed Shiban "from Yemen". Fadi Suhimat, Wael Alenaimat, aws Shahar "from Jordan", and Jihad "from Syria") for their never ending moral support and prayers which always acted as a catalyst in my academic life...

ACKNOWLEDGEMENT

“In the Name of Allah the Most Gracious and Most Merciful”

At the beginning of my speaking, I thank Allah for helping me in my study and guiding me to continue what I have started in my educational life. I thank Allah in every day for giving me the ability and motivation to continue this work...

After thanking Allah, I would like to convey my regards to my supervisor Yussalita Md. Yussop for the benefit and precious information that she gave me as one of her students. I thank and honor her for helping me to complete my study in a good way...

Finally, I would like to convey my thankfulness to all the lecturers in the Information Technology Department at Universiti Utara Malaysia (UUM...

Thank you UUM...

Maytham Abdulhussein Ali

Sep 2010

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CHAPTER ONE

INTODUCATION

1.0. Introduction

In this globalization of Technology, everyone must follow the rapidity of its development. Hence, most of our works are being done using computer for effective and efficacy. The most comprehensive step is very important for lecturers on one side, and students from the other side for its processing of fast learning process for lecturers in the selection process and the selection and manufacture of questions that are more practical and more objective, and to avoid the mistakes of others and intended through selection process type and pattern of question. The selection of operation process will depend on the criterion of juxtaposition with the technology in the modern era where I will be dealing with standard tools to create the appropriate atmosphere for students within a system, based on artificial intelligence in the selection of the sort of questions and how to deal with the students in terms of incentive to answer the questions very carefully according to the use of system.

Furthermore, the concept and principle of “Questions-bank” as known was raised in meeting of International of Workgroup that's held in (2001) to discuss and evaluate the survey of questions and considered it as an important step to go on and then during this meeting was the disappointment directly to main problem of the vanishing cognitive test results in that meeting and then they need to test those questions over and over to reach to solve of that problem which is discontent to vanishing cognitive test results (National center, 2005).

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